

Abstract of the Disclosure

The present invention provides a receiver frontend that eliminates static and dynamic DC errors and has improved second order intermodulation distortion (IMD2) performance. The receiver frontend includes a first mixer

- 5 that multiplies a received signal and a first local oscillator (LO) signal to produce an intermediate frequency (IF) signal. A second mixer multiplies the IF signal and a second LO signal to produce an output signal. A first divider circuit divides a reference signal from a reference oscillator by a first divisor N to produce the first LO signal, and a second divider circuit divides the
- 10 reference signal by a second divisor M to produce the second LO signal. Preferably, the first and second divisors N and M are each integers greater than one (1), and the second divisor M is not an integer multiple of the first divisor N.